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LISTING OF THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1 1. (original) An optical receiver for receiving an RZ-duobinary optical signal at a
2 bit rate B bits per second, the receiver comprising:
3 an optical bandpass filter responsive to the RZ-duobinary optical signal for
4 filtering the signal within a passband of B Hz; and
5 an optical detector for recovering data from the filtered RZ-duobinary optical
6 signal.
- 1 2. (previously presented) The optical receiver as defined in claim 1 wherein a center
2 frequency of the optical bandpass filter is detuned from a center frequency of the RZ-
3 duobinary optical signal by an amount less than or equal to $\pm 0.1 \times B$.
- 1 3. (original) An optical receiver for receiving an RZ-duobinary optical signal at a
2 bit rate B bits per second, the receiver comprising:
3 an optical bandpass filter responsive to the RZ-duobinary optical signal for
4 filtering the signal within a passband having a bandwidth greater than or equal to $0.7 \times B$
5 Hz and less than or equal to $1.3 \times B$ Hz; and
6 an optical detector for recovering data from the filtered RZ-duobinary optical
7 signal.
- 1 4. (original) A method for receiving a duobinary optical signal having a data bit rate
2 of B bits per second, the method comprising the steps of:
3 bandpass filtering the signal through a passband substantially equal to B Hz; and
4 recovering data from the filtered signal, wherein the signal conforms to an RZ-
5 duobinary signaling format.

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1 5. (previously presented) The method as defined in claim 4 wherein a center
2 frequency of the optical bandpass filter is detuned from a center frequency of the RZ-
3 duobinary optical signal by an amount less than or equal to $\pm 0.1 \times B$.

1 6. (original) A method for receiving a duobinary optical signal having a data bit rate
2 of B bits per second, the method comprising the steps of:
3 bandpass filtering the signal through a passband having a bandwidth greater than
4 or equal to $0.7 \times B$ Hz and less than or equal to $1.3 \times B$ Hz; and
5 recovering data from the filtered signal, wherein the signal conforms to an RZ-
6 duobinary signaling format.

1 7. (original) An optical transmission system comprising:
2 an optical transmitter for generating an RZ-duobinary optical signal at a bit rate B
3 bits per second;
4 an optical transmission medium coupled to the optical transmitter for supporting
5 propagation the RZ-duobinary optical signal;
6 an optical bandpass filter coupled to an output of the optical transmission medium
7 and being responsive to the RZ-duobinary optical signal for filtering the signal within a
8 passband of B Hz; and
9 an optical detector for recovering data from the filtered RZ-duobinary optical
10 signal.

1 8. (previously presented) The optical transmission system as defined in claim 7
2 wherein a center frequency of the optical bandpass filter is detuned from a center
3 frequency of the RZ-duobinary optical signal by an amount less than or equal to $\pm 0.1 \times B$.

1 9. (original) An optical transmission system comprising:
2 an optical transmitter for generating an RZ-duobinary optical signal at a bit rate B
3 bits per second;
4 an optical transmission medium coupled to the optical transmitter for supporting
5 propagation the RZ-duobinary optical signal;

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6 an optical bandpass filter coupled to an output of the optical transmission medium
7 and being responsive to the RZ-duobinary optical signal for filtering the signal within a
8 passband having a bandwidth greater than or equal to $0.7 \times B$ Hz and less than or equal to
9 $1.3 \times B$ Hz; and
10 an optical detector for recovering data from the filtered RZ-duobinary optical
11 signal.

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